

RAW SEQUENCE LISTING DATE: 09/24/2001 PATENT APPLICATION: US/09/807,345 TIME: 16:35:06

Input Set : A:\ES.txt

Output Set: N:\CRF3\09242001\I807345.raw

3 <110> APPLICANT: ARKHAMMAR, Per O.G. et al. 5 <120> TITLE OF INVENTION: AN IMPROVED METHOD FOR EXTRACTING QUANTITATIVE INFORMATION RELATING TO AN INFLUENCE IN A CELLULAR RESPONSE 8 <130> FILE REFERENCE: 0459-0571P 10 <140> CURRENT APPLICATION NUMBER: 09/807,345 ENTERED 11 <141> CURRENT FILING DATE: 2001-04-12 13 <160> NUMBER OF SEQ ID NOS: 40 15 <170> SOFTWARE: PatentIn version 3.1 17 <210> SEQ ID NO: 1 18 <211> LENGTH: 1788 19 <212> TYPE: DNA 20 <213> ORGANISM: Aequorea victoria and mouse 22 <220> FEATURE: 23 <221> NAME/KEY: CDS 24 <222> LOCATION: (1)..(1788) 25 <223> OTHER INFORMATION: 28 <400> SEQUENCE: 1 29 atg ggc aac gcc gcc gcc aag aag ggc agc gag cag gag agc gtg 48 30 Met Gly Asn Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val 33 aaa gag ttc cta gcc aaa gcc aag gaa gat ttc ctg aaa aaa tgg gaa 96 34 Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu 20 25 37 gac ccc tct cag aat aca gcc cag ttg gat cag ttt gat aga atc aag 38 Asp Pro Ser Gln Asn Thr Ala Gln Leu Asp Gln Phe Asp Arg Ile Lys 40 192 41 acc ctt ggc acc ggc tcc ttt ggg cga gtg atg ctg gtg aag cac aag 42 Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys 55 240 45 gag agt ggg aac cac tac gcc atg aag atc tta gac aag cag aag gtg 46 Glu Ser Gly Asn His Tyr Ala Met Lys Ile Leu Asp Lys Gln Lys Val 47 65 70 49 gtg aag cta aag cag atc gag cac act ctg aat gag aag cgc atc ctg 288 50 Val Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu 53 cag gcc gtc aac ttc ccg ttc ctg gtc aaa ctt gaa ttc tcc ttc aag 336 54 Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys 105 57 gac aac tca aac ctg tac atg gtc atg gag tat gta gct ggt ggc gag 384 58 Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Ala Gly Gly Glu 120 115 432 61 atg ttc tcc cac cta cgg cgg att gga agg ttc agc gag ccc cat gcc 62 Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala 135 140 65 cgt ttc tac gcg gcg cag atc gtc ctg acc ttt gag tat ctg cac tcc 480

66 Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

150

155

67 145





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| | ctg Leu | | | | | | | | | | | | | | | | 528 |
|------------|-------------------------|------------|------|------|-----|-----|------------|-----|---------|-----|-----|------------|-----|-----|------------|-----|------|
| | cag Gln | | Gly | | | | | | | | | | | | | | 576 |
| | aaa Lys | | | | | | | | | | | | | | | | 624 |
| | gag Glu | | | | | | | | | | | | | | | | 672 |
| 86 | ctc Leu 225 | | | | | | | | | | | | | | | | 720 |
| | gct Ala | | | | | | | | | | | | | | | | 768 |
| | cgg Arg | | Pro | | | | _ | | _ | _ | _ | - | _ | _ | | | 816 |
| | ctt Leu | | | | | | | | | | | | | | | | 864 |
| | Val | | Asp | | _ | | | Lys | | | - | _ | Thr | _ | | att | 912 |
| 106 | 5 gcc 5 Ala 7 305 | Ile | | | | | Val | | | | | Ile | | | | | 960 |
| | _ | | | | | Ser | | | | | Tyr | | | | | Ile | 1008 |
| | 3 cgg 1 Arg | | | | Asn | | | | | Lys | | | | | Phe | | 1056 |
| | / cgc B Arg | | | Ser | | | | | Leu | | | | | Val | | | 1104 |
| 121 | ctt Leu | | Glu | | | | | Val | | | | | Phe | | | | 1152 |
| 125 126 | gga Gly 385 | gag Glu | ggt | | | | gca Ala | aca | | | | ctt Leu | acc | | | | 1200 |
| 129 130 | att | tgc | | | | aag | cta | | | | tgg | cca | | | gtc Val | act | 1248 |
| 131 | | Cys | 1111 | 1111 | 405 | - | LCu | 110 | , , , , | 410 | _ | | | LCu | 415 | | |





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| | | _ | 1 | _ | | | ~ 1 | _ | _, | _ | _ | | _ | _ | | | |
|-----|--------------|-----|-------|-------|----------|-------|---------|-------|-------|---------|------|-------|------|------|-----|-------|-------|
| | Thr | Leu | Thr | - | GLY | Val | GIn | Cys | | Ser | Arg | Tyr | Pro | _ | Hls | Met | |
| 135 | | | | 420 | | | | | 425 | | | | | 430 | | | 1244 |
| | aaa | | | | | | | | | | | | | | | | 1344 |
| | Lys | GIN | | Asp | Pne | Pne | гàг | | Ата | мет | Pro | GIU | | Tyr | vaı | GIN | |
| 139 | | | 435 | | | | | 440 | | | | | 445 | | | | 1202 |
| | gaa | _ | | | | | | - | - | | | | _ | | _ | - | 1392 |
| | Glu | | Thr | тте | Pne | Tyr | | Asp | Asp | GLY | Asn | | ьys | Thr | Arg | Ala | |
| 143 | | 450 | | | | | 455 | | | | | 460 | | | | | 1440 |
| | gaa | | | | | | | | | | | | | | | | 1440 |
| | Glu | vaı | ьуs | Pne | GLu | | Asp | Thr | ьeu | vaı | | Arg | тте | GIU | Leu | | |
| | 465 | | | | | 470 | | | | | 475 | | | | | 480 | 1400 |
| | ggt | | | | | | | | | | | | | | | | 1488 |
| | Gly | тте | Asp | Pne | _ | GLU | Asp | GTA | ASI | | Leu | GIY | HIS | ьys | | GIU | |
| 151 | | | | | 485 | | | | | 490 | | | | | 495 | | 1526 |
| | tac | | | | | | | | | | | | | | | | 1536 |
| | Tyr | Asn | Tyr | | ser | HlS | Asn | vaı | | тте | мет | Ата | Asp | | Pro | ьуs | |
| 155 | | | | 500 | | | | | 505 | | | | | 510 | | | 1504 |
| | aat | | | | | | | | | | | | | | | | 1584 |
| | Asn | GTA | | Lys | Val | Asn | Phe | | тте | Arg | His | Asn | | ьуs | Asp | GLY | |
| 159 | | | 515 | | | | | 520 | | | | | 525 | | | | 1622 |
| | agc | | | | | | | | | | | | | | | | 1632 |
| | Ser | | GIn | Leu | Ата | Asp | | туг | GIn | GIn | Asn | | Pro | тте | GTA | Asp | |
| 163 | | 530 | | | | | 535 | | | | | 540 | | | | | 1.600 |
| | ggc | | | | | | | | | | | | | | | | 1680 |
| | Gly | Pro | vaı | Leu | Leu | | Asp | Asn | HlS | Tyr | | ser | Thr | GIN | ser | | |
| | 545 | | | | | 550 | | | | | 555 | | | | | 560 | 1700 |
| | ctt | | | - | | | - | _ | - | - | | _ | | | | | 1728 |
| | Leu | ser | ьуs | Asp | | Asn | GIU | ьуs | Arg | _ | HIS | мет | тте | ьeu | | GIU | |
| 171 | | | | | 565 | | _ 4_ 4_ | | | 570 | | | | | 575 | | 1776 |
| | ttt | | | | | | | | | | | | | | | | 1776 |
| | Phe | vaı | Thr | | Ата | GIY | тте | Thr | | СТА | мес | Asp | GIU | | TYL | Lys | |
| 175 | | | | 580 | | | | | 585 | | | | | 590 | | | 1700 |
| | cct | - | | taa | | | | | | | | | | | | | 1788 |
| | Pro | GIN | | | | | | | | | | | | | | | |
| 179 | -010 | \ | 595 | . NO. | . 1 | | | | | | | | | | | | |
| | <210 | | | | | | | | | | | | | | | | |
| | <211 | | | | ,, | | | | | | | | | | | | |
| | <212 <213 | | | | ħ o œı | | | +-ri | | od ma | | | | | | | |
| | <400 | | | | | iorea | r ATC | COLI | a aı | IQ IIIC | Juse | | | | | | |
| | | | | | | 7 l a | 71- | T *** | T *** | C1** | 602 | C111 | Cln | Clu | Cor | 172.1 | |
| | Met | ату | หรแ | нта | A1a | мта | мта | пур | пуз | 10 | SET | GIU | GIII | GIU | 15 | AGT | |
| 190 | Lys | 'C1 | nha | T 0 | כ הוג | T *** | 7 I - | T *** | C1 | | Dha | T 011 | Tura | Tvo | | Clu | |
| 193 | пуъ | GIU | FIIE | 20 | нта | пλг | нта | пуs | 25 | wsb | riie | ьeu | пλр | 30 | 111 | GIU | |
| | Asp | Dro | cor | | Acr | Thr | λΙο | Clr | | λακ | Gln | Dhe | Acr | | Tle | Lve | |
| 198 | waħ | PIO | 35 | GTII | MOII | TIIT | лта | 40 | ьeu | ush | GTII | FIIC | 45 | лту | 116 | пåэ | |
| | Thr | Len | | Πb∽ | G1 v | Ser | Dho | | Δτα | V=1 | Mot | T.eu | | Luc | Hie | T.vc | |
| 201 | TIIT | 50 | сту | TIIT | атй | Ser | 55 | ату | ary | val | me L | 60 | Val | пуз | urb | шуз | |
| | Glu | | C1 ** | λαη | uio | ጥ፣ታም | | Mo+ | Lare | Tla | Lou | | Lve | Gla | Luc | Val | |
| 203 | GIU | Set | атХ | MSII | птр | т Л т | пта | ne L | пλэ | 116 | пец | vəħ | пур | GIII | пуъ | Val | |



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| 206 | 65 | | | | | 70 | | | | | 75 | | | | | 80 |
|-----|-----------|-------------|-----------------|-------|----------|------------|------------|----------------|--------|------|----------------|--------------|---------|-------|--------|-------------|
| 209 | Val | Lys | Leu | Lys | Gln | Ile | Glu | His | Thr | Leu | Asn | Glu | Lys | Arg | Ile | Leu |
| 210 | | _ | | _ | 85 | | | | | 90 | | | _ | _ | 95 | |
| 213 | Gln | Ala | Val | Asn | Phe | Pro | Phe | Leu | Val | Lys | Leu | Glu | Phe | Ser | Phe | Lys |
| 214 | | | | 100 | | | | | 105 | | | | | 110 | | |
| 217 | Asp | Asn | Ser | Asn | Leu | Tyr | Met | Val | Met | Glu | Tyr | Val | Ala | Gly | Gly | Glu |
| 218 | | | 115 | | | | | 120 | | | | | 125 | | | |
| 221 | Met | Phe | Ser | His | Leu | Arg | Arg | Ile | Gly | Arg | Phe | Ser | Glu | Pro | His | Ala |
| 222 | | 130 | | | | | 135 | | | | | 140 | | | | |
| 225 | Arg | Phe | Tyr | Ala | Ala | | Ile | Val | Leu | Thr | | Glu | Tyr | Leu | His | Ser |
| | 145 | | | | | 150 | | | | | 155 | | | | | 160 |
| | Leu | Asp | Leu | Ile | _ | Arg | Asp | Leu | Lys | | Glu | Asn | Leu | Leu | | Asp |
| 230 | - | - | | | 165 | | | | _ | 170 | | | | _ | 175 | • |
| | GIn | Gln | GLY | _ | He | GIn | Val | Thr | _ | Phe | GLY | Phe | Ala | | Arg | Val |
| 234 | T | 0 3 | * | 180 | | mh | T | G | 185 | m1 | D | a 1 | | 190 | 37- | D |
| | Lys | GTA | _ | Thr | Trp | Thr | Leu | Cys | GIĀ | Thr | Pro | GIU | | Leu | Ата | Pro |
| 238 | 03 | +1 • | 195 | T | C = m | T | ~1 | 200 | 3.00 | T | 71. | 370.1 | 205 | Штт | штт | 3 1 a |
| | GIU | 210 | TTE | ьeu | ser | гуѕ | 215 | Tyr | ASII | гуѕ | Ата | 220 | ASP | ттр | тър | Ата |
| 242 | Lon | | 17 a 1 | T 011 | т1 о | Фиг | | Met | λla | λla | C117 | | Dro | Dro | Dho | Dho |
| | 225 | GTĀ | Val | Leu | 116 | 230 | GIU | MEC | Ата | нта | 235 | 1 Y 1 | FIO | PIO | FIIE | 240 |
| | | Asn | Gln | Pro | Tle | | Tle | Tyr | Glu | Lvs | | Va l | Ser | Glv | Lvs | |
| 250 | пли | пор | 0111 | 110 | 245 | OTIL | 110 | - <u>1 - 1</u> | O.L.u. | 250 | 110 | , a _ | DCI | O. J | 255 | 141 |
| | Ara | Phe | Pro | Ser | | Phe | Ser | Ser | Asp | | Lvs | Asp | Leu | Leu | | Asn |
| 254 | 5 | | | 260 | | | | | 265 | | -1- | 1 | | 270 | 5 | |
| | Leu | Leu | Gln | | Asp | Leu | Thr | Lys | Arg | Phe | Gly | Asn | Leu | Lys | Asp | Gly |
| 258 | | | 275 | | - | | | 280 | _ | | - | | 285 | - | - | - |
| 261 | Val | Asn | Asp | Ile | Lys | Asn | His | Lys | Trp | Phe | Ala | Thr | Thr | Asp | Trp | Ile |
| 262 | | 290 | | | | | 295 | | | | | 300 | | | | |
| 265 | Ala | Ile | ${\tt Tyr}$ | Gln | Arg | Lys | Val | Glu | Ala | Pro | Phe | Ile | Pro | Lys | Phe | Lys |
| | 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| | Gly | Pro | Gly | Asp | | Ser | Asn | Phe | Asp | _ | \mathtt{Tyr} | Glu | Glu | Glu | | Ile |
| 270 | | | | | 325 | | | _ | | 330 | | | | | 335 | |
| | Arg | Val | Ser | | Asn | Glu | Lys | Cys | | Lys | GLu | Phe | Thr | | Phe | GLY |
| 274 | | | 14 - L | 340 | . | a 1 | 01. | 01 | 345 | nh - | m l | a 1 | 77- 7 | 350 | D | -1 - |
| | Arg | Ата | | ser | гàг | GIY | GIU | Glu | Leu | Pne | Thr | GLY | | val | Pro | TTE |
| 278 | Ton | 370 7 | 355 | T 011 | 7 an | C1 |) an | 360 | 7 an | C1** | Cln | T *** | 365 | Com | wa 1 | Cor |
| 282 | Leu | 370 | GIU | Leu | ASP | СТУ | 375 | Val | ASII | GTĀ | GIII | 380 | Pile | ser | Val | ser |
| | G1v | | Gl _W | Glu | Gly | λen | | Thr | Тτε | Glv | T.37 C | | Фhr | T.Q11 | T.37.0 | Phe |
| | 385 | Gru | Gry | Giu | GIY | 390 | AIU | 1 111 | 1 Y 1 | Gry | 395 | пец | 1111 | пец | цуз | 400 |
| | | Cvs | Thr | Thr | Glv | | T.e.u | Pro | Val | Pro | | Pro | Thr | Len | Va l | |
| 290 | | 010 | | | 405 | _,, | Lou | 110 | | 410 | | | | Lou | 415 | |
| | Thr | Leu | Thr | Tvr | | Val | Gln | Cys | Phe | | Arq | Tyr | Pro | Asp | | Met |
| 294 | | | | 420 | 1 | | | - 2 - | 425 | | ر - | | | 430 | | |
| | Lys | Gln | His | | Phe | Phe | Lys | Ser | Ala | Met | Pro | Glu | Gly | | Val | Gln |
| 298 | _ | | 435 | - | | | _ | 440 | | | | | 445 | _ | | |
| 301 | Glu | Arg | Thr | Ile | Phe | Tyr | Lys | Asp | Asp | Gly | Asn | Tyr | Lys | Thr | Arg | Ala |
| 302 | | 450 | | | | | 455 | | | | | 460 | | | | |



RAW SEQUENCE LISTING

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| | Glu 465 | Val | Lys | Phe | Glu | Gly 470 | Asp | Thr | Leu | Val | Asn 475 | Arg | Ile | Glu | Leu | Lys 480 | |
|---|--|--|--|--|--|--|--|---|---|---|--|--|--|--|---|---|--------------------------------|
| 309 | | Ile | Asp | Phe | | | Asp | Gly | Asn | | | Gly | His | Lys | | | |
| 310 313 | Tyr | Asn | Tyr | Asn | 485 Ser | His | Asn | Val | Tyr | 490 Ile | Met | Ala | Asp | Lys | 495 Pro | Lys | |
| 314 | • | 01 | -1 - | 500 | **- 1 | • | D . | T | 505 | 3 | *** | | -1 - | 510 | | a1 | |
| 317 | Asn | GLY | 515 | Lys | vaı | Asn | Pne | ьуs 520 | TTE | Arg | HIS | Asn | 525 | ьуs | Asp | GIÀ | |
| | Ser | | Gln | Leu | Ala | Asp | | Tyr | Gln | Gln | Asn | | Pro | Ile | Gly | Asp | |
| 322 | C1 | 530 | 370] | T 011 | T 011 | Dro | 535 | 7 an | uio | Шттх | T 011 | 540 | Πb × | Cln | Cor | 715 | |
| | 545 | PIO | Val | Leu | ьeu | 550 | ASP | ASII | птъ | IAT | 555 | ser | 1111 | GIII | ser | 560 | |
| | | Sor | T.ve | Asp | Pro | | Glu | T.ve | Δrα | Δen | | Met | Tle | T.e.11 | T.011 | | |
| 330 | пеа | 261 | цуз | изр | 565 | ASII | GIU | цуз | nry | 570 | 1113 | Mec | 110 | шец | 575 | GIU | |
| | Dhe | Val | Thr | Ala | | Glv | Tle | Thr | His | | Met | Asn | Glu | T.e.ii | | Lvs | |
| 334 | Tito | , a , | * 111 | 580 | mu | 011 | 110 | 1111 | 585 | | 1100 | P | Olu | 590 | -1- | 5,5 | |
| | Pro | Gln | Glu | 500 | | | | | 505 | | | | | 330 | | | |
| 338 | 110 | OIII | 595 | | | | | | | | | | | | | | |
| | <210 |)> SI | | ON C | 3 | | | | | | | | | | | | |
| | | | | 1: 27 | | | | | | | | | | | | | |
| | <212 | | | | | | • | | | | | | | | | | |
| | | | | ISM: | Aequ | iorea | a vio | ctor | ia ar | nd mo | ouse | | , | | | | |
| | <220 | | | | • | | | | | | | | | | | | |
| | | | | KEY: | CDS | | | | | | | | | | | | |
| | <222 | | | | | (2) | 751) | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 349 | <223 | 3> 07 | CHER | INFO | | • | | | | | | | | | | | |
| | | | | | ORMA | • | | | | | | | | | | | |
| 352 353 | <400 atg |)> SI gct | EQUE gac | INFO NCE: gtt | ORMAT 3 tac | CCG | gcc | | | | | | | | | | 48 |
| 352 353 | <400 atg |)> SI gct | EQUE gac | INFO | ORMAT 3 tac | CCG | gcc | | | | | | | | | | 48 |
| 352 353 | <400 atg Met |)> SI gct | EQUE gac | INFO NCE: gtt | ORMAT 3 tac | CCG | gcc | | | | | | | | | | 48 |
| 352 353 354 355 357 | <400 atg Met 1 gcc |)> SI gct Ala aac | EQUEN gac Asp cgc | INFONCE: gtt Val | RMAT 3 tac Tyr 5 gcc | ccg Pro | gcc Ala aaa | Asn ggg | Asp gcg | Ser 10 ctg | Thr agg | Ala cag | Ser aag | Gln aac | Asp 15 gtg | Val cat | 48 |
| 352 353 354 355 357 358 | <400 atg Met 1 gcc |)> SI gct Ala aac | EQUEN gac Asp cgc | INFO NCE: gtt Val ttc Phe | RMAT 3 tac Tyr 5 gcc | ccg Pro | gcc Ala aaa | Asn ggg | Asp gcg | Ser 10 ctg | Thr agg | Ala cag | Ser aag | Gln aac Asn | Asp 15 gtg | Val cat | |
| 352 353 354 355 357 358 359 | <400 atg Met 1 gcc Ala |)> SI gct Ala aac Asn | EQUEN gac Asp cgc Arg | INFO NCE: gtt Val ttc Phe 20 | ORMAT 3 tac Tyr 5 gcc Ala | ccg Pro cgc Arg | gcc Ala aaa Lys | Asn ggg Gly | Asp gcg Ala 25 | Ser 10 ctg Leu | Thr agg Arg | Ala cag Gln | Ser aag Lys | Gln aac Asn 30 | Asp 15 gtg Val | Val cat His | 96 |
| 352 353 354 355 357 358 359 361 | <400 atg Met 1 gcc Ala gag |)> SI gct Ala aac Asn gtg | EQUEN gac Asp cgc Arg aaa | INFO NCE: gtt Val ttc Phe 20 gac | ORMAT 3 tac Tyr 5 gcc Ala cac | ccg Pro cgc Arg | gcc Ala aaa Lys | Asn ggg Gly atc | gcg Ala 25 gcc | Ser 10 ctg Leu cgc | Thr agg Arg ttc | Ala cag Gln ttc | Ser aag Lys aag | Gln aac Asn 30 caa | Asp 15 gtg Val | Val cat His | |
| 352 353 354 355 357 358 359 361 362 | <400 atg Met 1 gcc Ala gag |)> SI gct Ala aac Asn gtg | eQUEN gac Asp cgc Arg aaa Lys | INFO NCE: gtt Val ttc Phe 20 | ORMAT 3 tac Tyr 5 gcc Ala cac | ccg Pro cgc Arg | gcc Ala aaa Lys | Asn ggg Gly atc Ile | gcg Ala 25 gcc | Ser 10 ctg Leu cgc | Thr agg Arg ttc | Ala cag Gln ttc | Ser aag Lys aag Lys | Gln aac Asn 30 caa | Asp 15 gtg Val | Val cat His | 96 |
| 352 353 354 355 357 358 359 361 362 363 | <400 atg Met 1 gcc Ala gag Glu |)> SI gct Ala aac Asn gtg Val | eQUEN gac Asp cgc Arg aaa Lys 35 | INFO NCE: gtt Val ttc Phe 20 gac Asp | DRMAT 3 tac Tyr 5 gcc Ala cac His | ccg Pro cgc Arg aaa Lys | gcc Ala aaa Lys ttc Phe | Asn ggg Gly atc Ile 40 | gcg Ala 25 gcc Ala | Ser 10 ctg Leu cgc Arg | Thr agg Arg ttc Phe | Ala cag Gln ttc Phe | ser aag Lys aag Lys 45 | Gln aac Asn 30 caa Gln | Asp 15 gtg Val ccc Pro | val cat His acc Thr | 96 |
| 352 353 354 355 357 358 359 361 362 363 365 | <400 atg Met 1 gcc Ala gag Glu | yct Ala aac Asn gtg Val | equent gac Asp cgc Arg aaa Lys 35 agc | INFO NCE: gtt Val ttc Phe 20 gac Asp | DRMAT 3 tac Tyr 5 gcc Ala cac His | ccg Pro cgc Arg aaa Lys | gcc Ala aaa Lys ttc Phe | Asn ggg Gly atc Ile 40 ttc | gcg Ala 25 gcc Ala atc | Ser 10 ctg Leu cgc Arg | Thr agg Arg ttc Phe ggg | Ala cag Gln ttc Phe | ser aag Lys aag Lys 45 ggg | Gln aac Asn 30 caa Gln aaa | Asp 15 gtg Val ccc Pro | Val cat His acc Thr | 96 |
| 352 353 354 355 357 358 359 361 362 363 365 366 | <400 atg Met 1 gcc Ala gag Glu | yct gct Ala aac Asn gtg Val tgc Cys | equent gac Asp cgc Arg aaa Lys 35 agc | INFO NCE: gtt Val ttc Phe 20 gac Asp | DRMAT 3 tac Tyr 5 gcc Ala cac His | ccg Pro cgc Arg aaa Lys | gcc Ala aaa Lys ttc Phe gac Asp | Asn ggg Gly atc Ile 40 ttc | gcg Ala 25 gcc Ala atc | Ser 10 ctg Leu cgc Arg | Thr agg Arg ttc Phe ggg | Ala cag Gln ttc Phe ttt | ser aag Lys aag Lys 45 ggg | Gln aac Asn 30 caa Gln aaa | Asp 15 gtg Val ccc Pro | Val cat His acc Thr | 96 |
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| 352 353 354 355 357 358 359 361 362 363 365 366 367 369 | <400 atg Met 1 gcc Ala gag Glu ttc Phe |)> SI gct Ala aac Asn gtg Val tgc Cys 50 cag | equent gac Asp cgc Arg aaa Lys agc Ser tgc | INFO NCE: gtt Val ttc Phe 20 gac Asp cac His | ORMAT 3 tac Tyr 5 gcc Ala cac His tgc Cys | ccg Pro cgc Arg aaa Lys acc Thr | gcc Ala aaa Lys ttc Phe gac Asp 55 | Asn ggg Gly atc Ile 40 ttc Phe | gcg Ala 25 gcc Ala atc Ile | Ser 10 ctg Leu cgc Arg tgg Trp | agg Arg ttc Phe ggg Gly cat | Ala cag Gln ttc Phe ttt Phe 60 aag | ser aag Lys aag Lys 45 ggg Gly agg | Gln aac Asn 30 caa Gln aaa Lys | Asp 15 gtg Val ccc Pro caa Gln | cat His acc Thr ggc Gly | 96 |
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/807,345



DATE: 09/24/2001

TIME: 16:35:07

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